D-104 Boom Mic

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I recently realized that I was starting to have neck pains from bending over my D-104. Even though my standard D-104 has a nice tall stand, it was still not tall enough to not have to bend over to talk in it. In the process of cleaning the garage, I came across and old desk lamp (Picture #2) which was headed for the trash due to a damaged light socket. Well a light went off, and I realized that this would make a perfect boom mic stand for the D-104 head (Picture #1). If you can locate a lamp with the type of hardware as seen in Picture #3, it will bolt right up to the side of the mic and it has the same curvature of the D-104.

Equipment & Parts needed:
1) Soldering gun
2) Solder
3) Drill & drill bit
4) Heat gun
5) Small & Large piece of heat shrink
6) Coax PL-265 rubber boot
7) Lamp assembly
8) D-104
9) Screwdriver
10) Two metal screws
11) Microphone plug
12) PTT push button latching switch or foot switch.

Steps to conversion:
1) Remove lamp and shade assembly from the arm assembly. On my particu-

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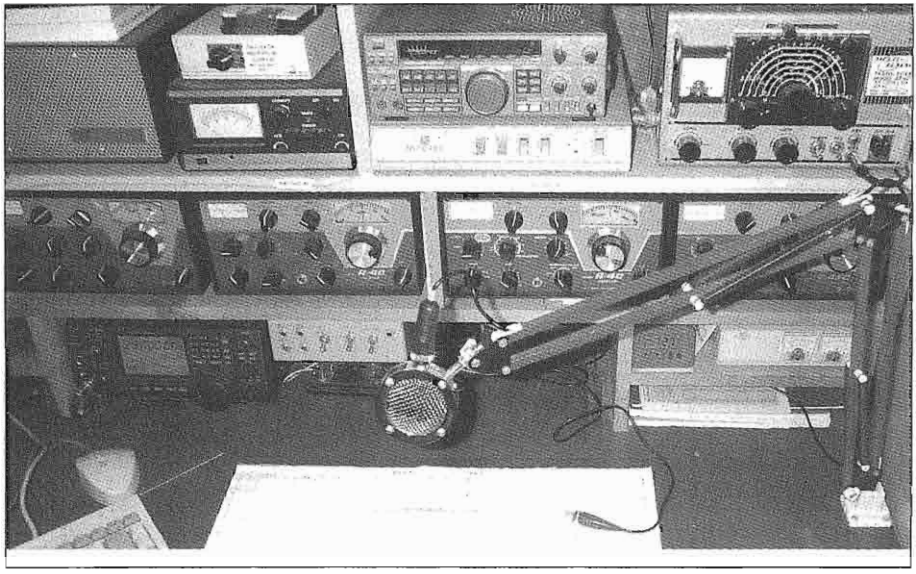
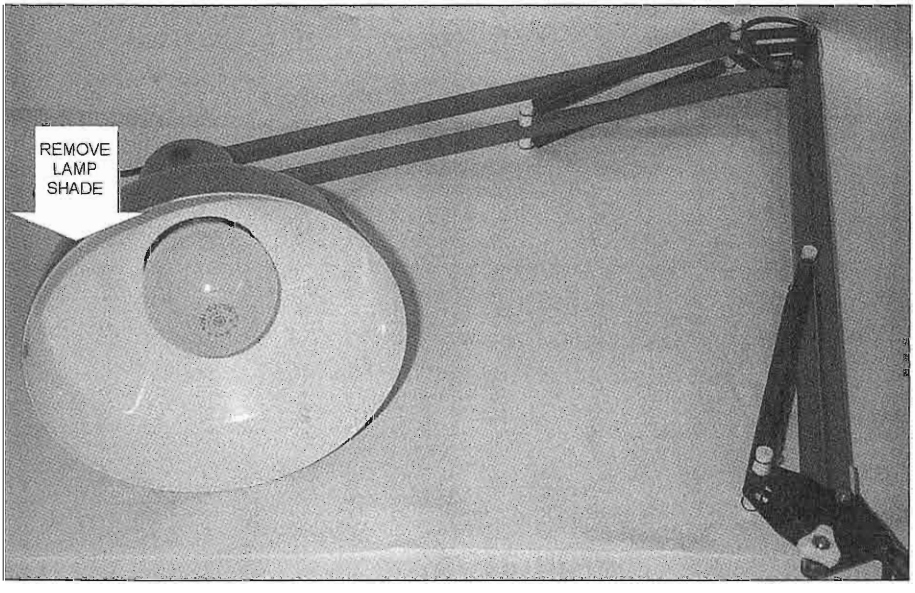
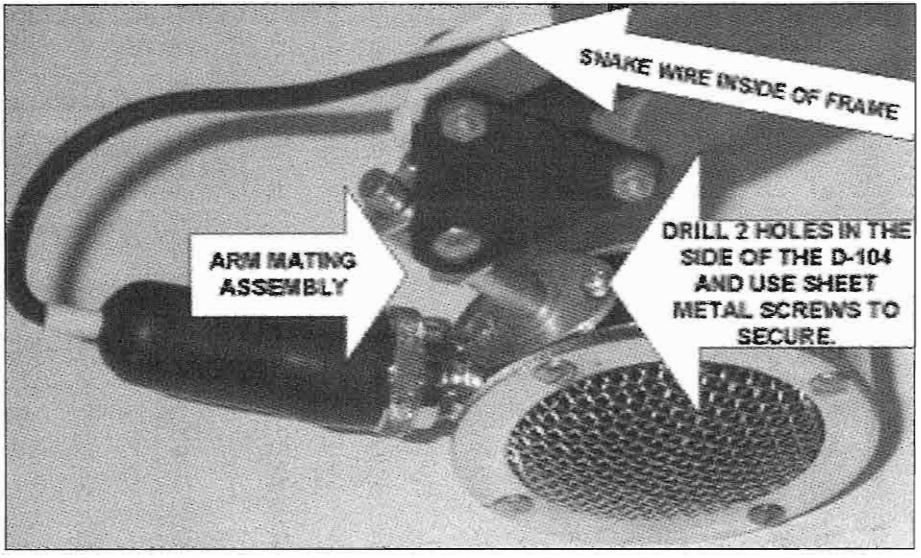


Picture 1.

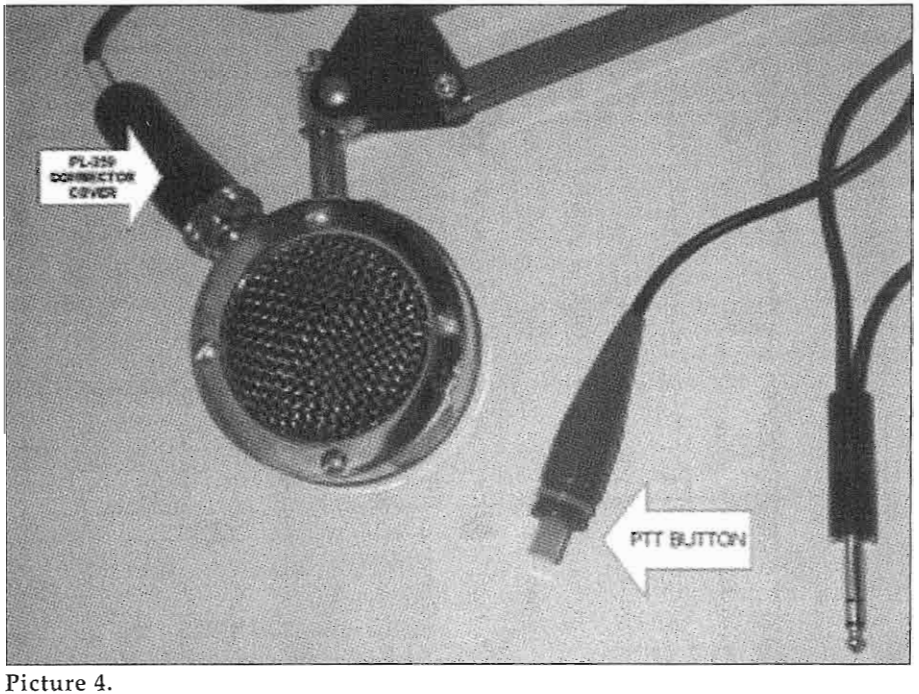
lar model, I had to drill out two rivets, which held the arm mechanism to the shade assembly.
2) Pull the AC wiring out of the arm assembly.
3) Remove the back of the mic head and pull the element away from the unit to prevent accidentally drilling into it in the following step.
4) Drill two holes, of the proper diameter to match up to the arm mating assembly that the lamp assembly was just removed from (Picture #3).
5) Fasten the head to the arm mating assembly (Picture #3).
6) Remove D-104 from its stand.
7) Put a small 1/4 - 1/2 inch piece of heat shrink on the wires that will be hooked up in the following step.
8) Solder shielded audio cable to the D-104 head. The shield should be connected to pin #1&2, the hot to #3. Pull up the heat shrink mentioned in step #7 and shrink with heat gun.
9) Locate a plastic boot for a PL-259 plug, and pull it up onto the wire and slide it over the mic plug. As an alternative to the boot, a larger piece of heat shrink can be used.
10) Snake new mic cable through arm assembly.
11) Install mic plug and solder cable to the appropriate pins.
12) Locate the new PTT button, or foot switch and solder it to the appropriate length of two conductor, shielded wire, or audio cable to reach the switch (Picture #4).
13) Pull the heat shrink up over the PTT wire and solder the remaining end to the mic plug.
14) Pull the heat shrink up over the PTT relay body and with a heat gun, heat up the heat shrink over the switch assembly. ER



Picture 2. Here what it the lamp looked like before the conversion. The conversion took several hours to perform, but it was well worth it.



Picture 3.



Picture 4.